

SPECIFICATION

Product Name: Super light Magnesium Oxide (0.10-0.13 gm/ml)
Chemical Formula: MgO
CAS Number: 1309-48-4
Molecular Weight: 40.305 g/mol
Appearance: Very fine light white powder
Odor: Odorless.

Chemical Composition

Parameter	Unit	Typical Value	Specification (Min/Max)
Identification	-	Gives the reaction of magnesium	Gives the reaction of magnesium
Calcium	%	1.1%	NMT 1.5%
Iron	%	0.05%	NMT 0.1%
Soluble subs.	%	1.97	NMT 2%
Subs. Insoluble in acetic acid	%	0.1%	NMT 0.1%
Heavy Metal	PPM	10 PPM	NMT 30 PPM
Arsenic	PPM	3.0 PPM	NMT 4 PPM
Chloride	%	0.1%	NMT 0.125%
Sulphate	%	1.0%	NMT 1.0%
Loss on ignition	%	8.0%	NMT 8%
Assay	%	99.98%	Light magnesium oxide contains not less than 98.0% and not more than 100% of MgO.
Bulk density	g/ml	0.10 to 0.13	
Sieve Analysis	%	Min. 98% passing through #325	

Physical Properties

- Solubility: Practically insoluble in water. Insoluble in ethanol. Insoluble in acetone. Insoluble in ether.

Shelf Life & Storage

- Shelf Life: 5 years from date of manufacture under recommended storage.
- Storage Conditions: Store in a tightly closed, moisture-resistant container in a cool, dry, and well-ventilated area, protected from moisture, humidity, rain, and direct sunlight.

Applications

- Use: Widely used as a magnesium source, absorbent, alkalizing agent, anti-caking agent, and processing aid in pharmaceutical, nutraceutical, food, cosmetic, and industrial applications.
- Dosage: Depends on the intended application, desired elemental magnesium level, formulation requirements, regulatory requirements, and target population and nutritional needs.

Packaging

- Standard Packing: 10 kg woven PP bags with inner liner and 100 grams, or as per customer requirement.

- Labeling: Product name, batch number, net weight, manufacture date, expiry date, and manufacturer details.

* Specifications are based on the manufacturer's provided specifications.